

**SECTION C - STATEMENT OF WORK (SOW)**  
**FOR THE**  
**INTEGRATED COMMERCIAL INTRUSION DETECTION SYSTEM-IV (ICIDS-IV)**  
**04 May 2007**

## 1.0 SCOPE

### 1.1 General

This Statement of Work (SOW) applies to the Integrated Commercial Intrusion Detection System-IV (ICIDS-IV), which consists of Commercial Off-The-Shelf (COTS) equipment, to include interior and exterior sensors, Primary Monitor Consoles (PMC), Remote Status Monitors (RSM), Remote Area Data Collectors (RADAC), Closed Circuit TV (CCTV), and Entry Control Equipment (ECE).

### 1.2 ICIDS-IV Effort

The Contractor shall provide an installed ICIDS-IV and associated equipment and material that integrates the Contractor Furnished Equipment (CFE) and any existing Government installed equipment. This effort includes:

- Provide test and evaluation Engineering Support Test Laboratory (ESTL)
- Performing IDS Site Survey.
- Site Specific Design efforts.
- Providing all installation materials and labor
- Installing and acceptance testing each ICIDS-IV system.
- One Year Warranty including parts and labor.
- Operator, Systems Administrator, and Maintainer Training.
- Developing and providing associated data.
- Providing technical support during Government conducted system performance verification and Government endurance testing
- Site preparation, if required (when approved by the Government).
- Provide Technical Manuals.

### 1.3 ICIDS-IV Sites

The sites at which the ICIDS-IV shall be delivered and installed may be located inside or outside the contiguous United States (CONUS). The tentative ICIDS-IV Fielding Plan is listed in attachment J. Potential Air Force and Navy sites for the installation of ICIDS-IV are to be determined (TBD). Contractor will need to coordinate theater clearance requirements for OCONUS sites.

### 1.4 ICIDS-IV Delivery Orders

The contractor shall be prepared to propose and execute individual delivery orders after contract award to include management, survey and design, installation, testing, and modifications.

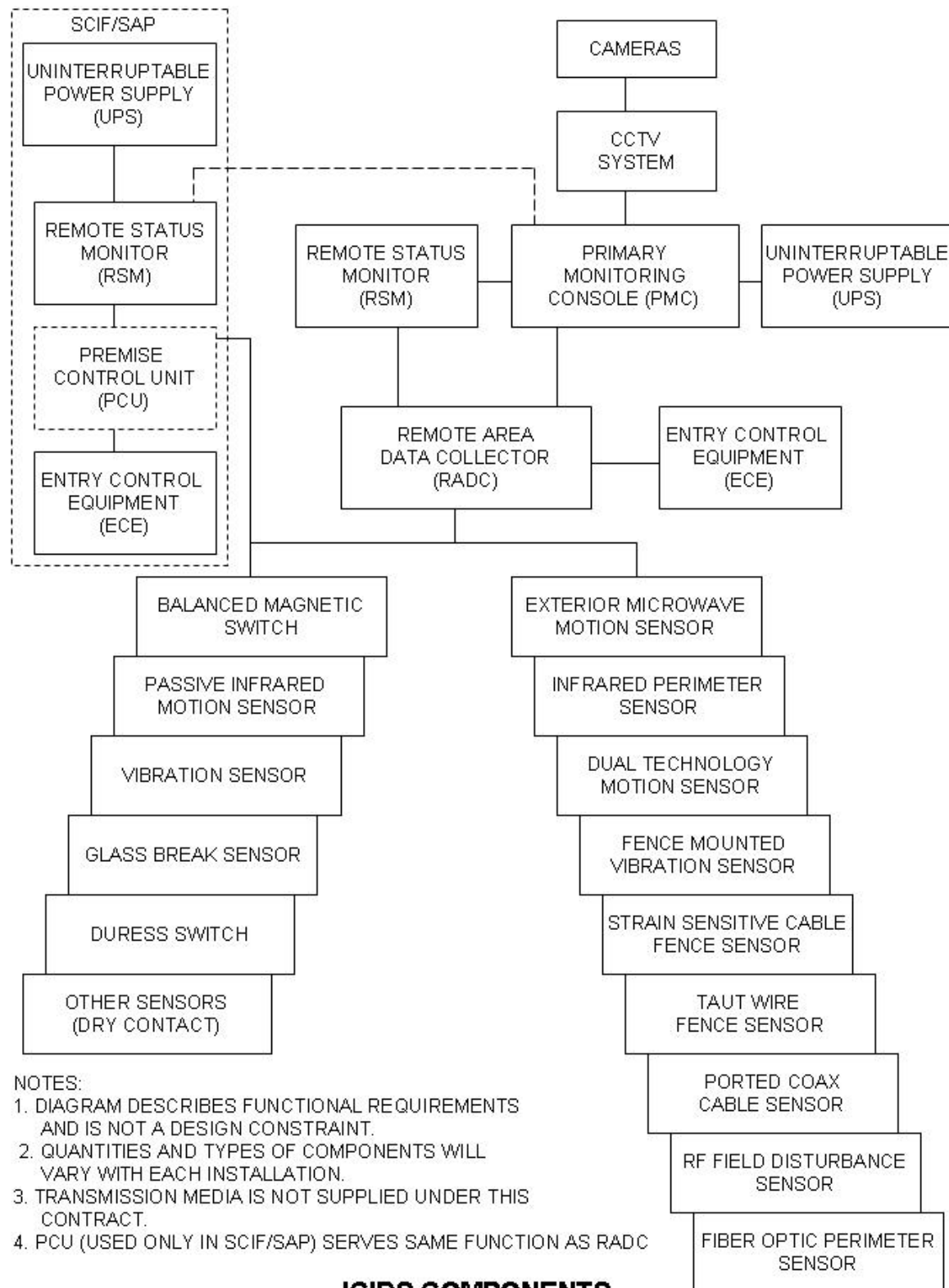


Figure 1

## 2.0 APPLICABLE DOCUMENTS

The documents listed in this section form a part of this SOW to the extent specified by specific reference in other paragraphs of this SOW. If a document is referenced without indicating any specific paragraph as being applicable, then the document is applicable in its entirety.

### 2.1 Government Documents

Department of Defense (DoD) Directive Number 3224.3	17 Feb 89	Physical Security Equipment (PSE) Assignment of Responsibility for Research, Development, Testing, Evaluation, Production, Procurement, Deployment, and Support.
Army Regulation (AR) 190-13	30 Sept 93	The Army Physical Security Program
*Operational Requirements Document (ORD)	04 Oct 94	Integrated Commercial Intrusion Detection System (Revised)
**System Performance Specification (Documents listed below)		Integrated Commercial Intrusion Detection System – IV
ICIDS-PS-0700	17 APR 07	Performance Specification (PS) for Command, Control, and Display Subsystem of the Integrated Commercial Intrusion Detection System
ICIDS-PS-0701	17 APR 07	Performance Specification for Closed Circuit Television Assessment Equipment of the Integrated Commercial Intrusion Detection System.
ICIDS-PS-0702	17 APR 07	Performance Specification for Entry Control Equipment of the Integrated

Commercial Intrusion  
Detection System.

*DCID 6/9	18 Nov 02	Physical Security Standards for Sensitive Compartmented Information Facilities
*JAFAN 6/9	23 Mar 04	Joint Air Force-Army-Navy Physical Security Standards for Special Access Program Facilities
AR 380-381	21 Apr 05	Special Access Programs (SAPs) and Sensitive Activities
AR 190-59	01 Jul 98	Chemical Agent Security Program
AR 190-11	12 Feb 98	Physical Security of Arms, Ammunition and Explosives
DoD Directive (DoDD) 8500.1	24 Oct 02	Information Assurance (IA)
DoD Instruction (DoDI) 8500.2	06 Feb 03	Information Assurance (IA) Implementation
DoD Instruction (DoDI) 8580.1	09 Jul 04	Information Assurance (IA) In The Defense Acquisition System
Interim DoD Information Assurance (IA) Certification and Accreditation (C&A) Process Guidance-	06 Jul 06	Subj: DoD Information Assurance Certification and Accreditation Process (DIACAP)
DA Memorandum	30 Nov 06	Subj: Department of the Army strategy for the implementation of the Interim DoD Information Assurance Certification and Accreditation Process (DIACAP)
AR 25-2	14 Nov 03	Information Assurance

\*= Offerors may contact the Contracting Office if not able to find on the WWW.

\*\*=Documents attached to the RFP

## 2.2 Military Specifications and Standards

MIL-STD-40051-2      Department of Defense Standard Practice:  
Preparation of Digital Technical Information for

## Page Based Technical Manuals

MIL-STD-38784 (Including Notices 1&2)	Department of Defense Standard Practice for Manuals, Technical: General Style and Format Requirements
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NOTE: MIL-STD-40051-2 will govern technical content requirements only; MIL-STD-38784 will govern style and format requirements only.

#MIL-STD-882	System Safety Program Requirements
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MIL-STD-130M	Identification Marking of U.S. Military Property
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# = items are to be used for guidance, use is not mandatory.

Unless otherwise indicated, electronic copies of the above documents are available from:  
<http://assist.daps.dla.mil/quicksearch/>.

Hard copies can be obtained from:  
Standardization Documents Order Desk  
700 Robbins Avenue, Building 4D  
Philadelphia, PA 1911-5094

### 2.3 Order of Precedence

In the event of a conflict between the text of this document and the references cited herein, the text of this document (SOW) takes precedence followed by ICIDS Performance Specifications, Site Specific Design (SSD), and associated drawings. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

## 3.0 REQUIREMENTS

### 3.1 General

Unless otherwise provided, the Contractor shall furnish all personnel, materials and services necessary to accomplish the timely fielding of the ICIDS-IV in accordance with the contract and resulting delivery orders.

### 3.2 Program Management

#### 3.2.1 Planning and Scheduling.

The Contractor shall implement, manage, update, and maintain a schedule that shall be presented for discussion at each Program Status Review (PSR) meeting and contained in the Monthly Status Report IAW Contract Data Requirements List (CDRL) A001. The Contractor shall produce and

install ICIDS-IV in accordance with contractor's Government approved plan and schedule. The plan and schedule shall be used throughout the contract as a management tool to assess progress and status relative to achieving program requirements. The Contractor shall also report on work in progress at PSR meetings and in the Monthly Status Report (CDRL) A001. The location for each meeting shall be the Government's facility, Ft. Belvoir, VA.

3.2.2 The Contractor shall host a Start-of-Work meeting, within 30 days of contract award. The Agenda with discussion issues will be sent to the Government for approval within seven (7) workdays prior to scheduled Start-of-work meeting. This meeting shall be held at PM-FPS, Fort Belvoir, VA. Discussions will take place about the ICIDS-IV program, the first Delivery Order events and timeline, as well as Technical Manual (TM) and training program/materials development.

3.2.3 The contractor shall be responsible for recording the minutes of all meetings held with the Government. The minutes shall be submitted in accordance with CDRL A034.

### 3.3 Engineering Support

a. Engineering support consists of site surveys, site specific designs, systems installations, and software/hardware engineering support to the installed sites as defined below.

b. Contractor shall establish, maintain, and administer a fully operational IDS test and evaluation ESTL for PVT-1 and throughout the duration of the contract. The Government does not intend to provide any Government Furnished Equipment (GFE) for use in the ESTL. The ESTL shall be available to the Government for PVT-1 testing (per paragraph 4.2.2.1 of this Statement of Work (SOW), and for training, and demonstration purposes in accordance with paragraph 3.6.2 of this SOW. The ESTL may also be used as a facility to test upgrades or modifications to the IDS system prior to fielding changes to an operational site. The ESTL shall be located not greater than 30 miles from Fort Belvoir, VA. All equipment (hardware and software), labor, and facilities for the ESTL shall be provided by the contractor. See paragraph 4.2.2.1 of this SOW for the specific equipment requirements for the PVT-1 equipment. Upon completion of the PVT-1 testing, the equipment shall remain for use in the ESTL for the life of the contract. The Government will take possession of the ESTL equipment in final configuration upon completion of the final ordering period.

c. Contractor shall utilize an open systems architecture that will permit other alarm systems sensors, and other Department of Defense (DOD) data bases to provide input for display. Additionally, current and future physical security equipment development efforts, such as Mobile Detection Assessment Response System (MDARS) and Automated Installation Entry (AIE), will be investigated for integration with ICIDS-IV.

#### 3.3.1 Site Survey

a. The Contractor shall be provided the following by Product Manager-Force Protection Systems (PM-FPS) for each site to be surveyed:

(1) Available Government site drawings,

(2) contact information for the Government Site Point of Contact (SPOC), the security office for passing security clearances of all contractor personnel, SPOC will assist in coordinating,

(3) a list of all currently installed intrusion detection equipment (IDS),

(4) and a list of all locations on the site that require IDS.

b. Upon completion of the site survey, the Contractor shall submit a proposal with supporting rationale for the price proposed to accomplish the Site Survey and Site Specific Design (SSD).

c. Upon acceptance of the proposal, the Contracting Officer (KO) will issue the contractor a delivery order.

#### 3.3.1.1 Performance of Site Survey

For the site survey, the Contractor shall visit the site and use a checklist to perform a detailed site survey to determine equipment type, quantities, and locations needed to provide a complete ICIDS-IV system to support the site requirements. The survey shall identify necessary site preparations requirements, and defining hardware and/or software interfaces with existing Intrusion Detection Systems (IDS) or other security equipment. The contractor shall identify all existing IDS equipment that is not operating or state-of the-art for replacement during the ICIDS-IV installation. All documented information, such as drawings and lists of existing equipment, shall be verified by comparison with actual existing conditions at each site. Additionally, as a part of the site survey, the Contractor shall verify availability and certify the quality of any Government furnished Data Transmission Media (DTM), low voltage transmission lines and electrical grounding systems. All DTM and Radio Links shall be tested to determine suitability for use in the ICIDS-IV communication system. The site survey report shall document differing site conditions IAW FAR 52.236-3 Site Investigation and Conditions Affecting the Work for submission to the government IAW CDRL A002.

The site survey is the most critical factor for the successful completion of system installation for providing an operationally available and secure IDS. It is necessary that the site survey team be qualified in all aspects of the survey process including management oversight, technical capability, certified electrician and previous IDS site survey experience. Contractor shall provide proof of qualification (diploma, certifications, licenses, skill set, experience installing similar commercial security systems, etc...) for personnel such as the Site Managers, Engineers, Technicians, Electricians, or equivalent.

#### 3.3.1.2 Site Survey Report

After the Contractor conducts the site survey, the Contractor shall submit a Site Survey Report IAW CDRL A002. This report shall include findings of the site survey, and clearly point out any discrepancies. Site conditions, new facilities, or other changed requirements shall be fully documented in detail. New floor plans, changed equipment layouts, revised block diagrams, preliminary price data for the equipment and installation, and other data shall be included to fully document the



recommendations. In addition, the Contractor shall identify any extreme environmental conditions that would exceed the operational limits of equipment to be installed.

#### 3.3.1.3 Site Preparation Requirements and Installation Plan

The Contractor shall submit a Site Preparation Requirements and Installation Plan - Design IAW CDRL A004. This document shall specifically denote site preparation requirements to support system installation and required completion dates of site preparation projects. The plan shall also document the results of the DTM tests, identifying links that are suitable and those unsuitable for use in the ICIDS-IV. Should unsuitable DTM be identified, the plan shall make recommendations for either using alternative DTM or re-conditioning/replacing the existing DTM.

This Site Preparation Requirements and Installation Plan shall clearly identify a logical schedule of significant events for system installation, lay out plan, mobilization, facility access, planned utility interruptions, system startup, checkout, projected test schedules, and other tasks required to accomplish the ICIDS-IV installation. The installation will be responsible for site preparation unless the site preparation required is part of a turnkey as specified by the Government.

#### 3.3.1.4 Site Specific Design (SSD)

The design shall provide a complete description of the ICIDS-IV system design. The design documentation package shall include required drawings, a design analysis, preliminary pricing estimate, and any other data required to support the design.

- a. Drawings. The drawing package shall include IAW CDRL A005:
  - (1) Title sheet.
  - (2) Index of abbreviations and symbols along with definitions.
  - (3) Site plan.
  - (4) ICIDS-IV block diagram, including data link interface with the installation's DTM.
  - (5) ICIDS-IV zones and sensor installation design including definition of existing equipment to be removed (Paragraph 3.3.5) and equipment to be interfaced with ICIDS-IV.
  - (6) CCTV assessment block diagram, if applicable, after site survey is complete.
  - (7) Entry control system block diagram, if applicable, after site survey is complete.
  - (8) Site Security Center equipment layout and arrangement.

- b. Installation Engineering Plan. The site design shall be documented IAW CDRL A003 to include a narrative discussion of design philosophy and assumptions, reference sources, and design calculations.
- c. Preliminary installation hours and materials estimate. As a minimum, this shall include price estimates of the following:
- (1) ICIDS-IV components and materials, installation components/hardware, and bulk installation materials.
  - (2) Hours and labor categories required for necessary removal, disposal of any existing equipment and installation of ICIDS-IV components, materials, and testing.
  - (3) Travel/subsistence. Rates shall be in accordance with Joint Travel Federal Regulations; state justification for Travel, etc.
  - (4) Justify rental equipment and rates used during installation.
  - (5) Required modifications/repair of any existing IDS that is needed to interface with the ICIDS-IV.
- d. Design Documentation. Upon Government review and comment on the draft, the contractor shall provide the SSD for Government approval. The contractor shall describe in detail the changes made between the draft and SSD.

### 3.3.2 Site Installation

Upon Government approval of the SSD, the Contractor shall submit a proposal for the Site Specific Installation. It shall include supporting rationale for the work-hours and travel/subsistence proposed to accomplish the Site Installation effort; including removal of existing IDS equipment as identified in the Government approved Site Survey Report and Engineering Plan. It shall also include a documented schedule, with supporting rationale, of all ICIDS-IV components and materials, and installation rental equipment required for installation IAW the approved SSD. Upon Government approval of the proposal, the Contracting Officer will issue a separate delivery order for the Site Installation. The Contractor shall then proceed with the Site Installation effort. During the changeover of operational mission from existing IDS to the ICIDS-IV the contractor shall not cause any portion of the system to be “down” (i.e., non-operational) for more than 48 hours, with not more than 10 percent of the system being “down” at any one time. The contractor shall keep the ICIDS-IV system fully operational at all times during changeover until Government acceptance, at which time the warranty period will commence.

The date of initiation of Site Installation work shall be determined upon final acceptance by the Government of the Contractor’s submitted SSD and completion of any required site preparation. Installation shall be completed within the time set forth in the delivery order that funds the Site Installation effort. The ICIDS-IV shall be installed IAW the Government approved SSD. Prior to Government acceptance of the installed system, the Contractor shall revise SSD drawings to reflect

actual installed design IAW CDRL A006. The as-built drawings shall accurately reflect all field changes.

Each installation will provide the Contractor with suitable storage and office workspace IAW the agreed upon terms and conditions set forth in the Memorandum Of Notification (MON)/Material Fielding Agreement (MFA) between the Product Manager-Force Protection Systems (PM-FPS) and the gaining commander. If the Government cannot provide suitable storage and office space as determined during the Site Survey the contractor shall identify and propose an alternate plan to include possible location off site. Contractor is responsible for daily clean up IAW FAR clause 52.236-12 and contractor shall be in compliance with all safety regulations and codes. After installation, the Contractor shall restore the area to a clean condition, dispose of packing material and installation debris, and repair any Contractor caused damage to Government property.

### 3.3.3 Interruption of Utility Services

All intentional interruptions of utility services shall be scheduled with the Government SPOC. The Contractor shall make every effort to prevent any unintentional interruption of services.

### 3.3.4 Equipment Delivery and Storage

The Contractor shall be responsible for the preparation and delivery of all required installation materials and equipment, and shall perform loading, unloading, packing, unpacking, inventory, and inspection of said equipment at each site. The Contractor shall also be responsible for proper storage of all materials and equipment security under its cognizance during performance of this contract.

### 3.3.5 Removal of Installation Debris

The Contractor shall be responsible for the removal and disposal of all debris generated as the result of the installation including removed equipment in accordance with the Delivery Order (D.O.).

## 3.4 Software Requirement

### 3.4.1 System Application Software.

The ICIDS-IV Contractor shall provide both system and application (COTS) software. The system software shall support the application software programs and be compliant with the Performance Specifications. If a software license is required, a one-time site license for all ICIDS-IV installations shall be offered.

### 3.4.2 Software Defect Corrections.

All corrections to software defects (which are defined as any failure or inability to meet the system's requirements) shall be made available and installed at no change in contract price or performance period extension. See Paragraph 3.9.2 for hardware and software upgrades.

### 3.4.3 System Software.

Upon successful completion of the Performance Verification Test (PVT) and subsequent System Acceptance Test (SAT), (Paragraphs 4.2.2 and 4.2.4, respectively), the Contractor shall provide original and backup (operational, application, support, and diagnostics) software and instructional documentation IAW CDRL A008.

### 3.5 Documentation Requirements

#### 3.5.1 Product Bulletins

The Contractor shall deliver product bulletins, as an attachment to the Monthly Status Report (CDRL A001), which shall identify existing and potential problems and contractor recommend solutions on each D.O., and provide information on any changes to the ICIDS-IV hardware, software, training materials, or service provided under this contract, including new releases and lessons learned. FAR clause 52.216-2 Economic Price Adjustment-Standard Supplies, shall be followed for supplies.

#### 3.5.2 Technical Manuals

The ICIDS-IV has requirements for Department of the Army (DA) Technical Manuals (TMs). The Contractor shall comply with the manual requirements as set forth in SOW Attachment A for development and production of equipment publications.

### 3.6 Training

ICIDS-IV site training will be a combination of classroom and hands-on training, utilizing Contractor installed ICIDS-IV equipment. Site training shall consist of Operator, System Administrator, and Maintenance courses. The Operator, System Administrator, and Maintenance training courses shall be tailored to each installation according to the type and quantity of ICIDS-IV equipment being installed. In addition, an executive training course overview, for Program Office personnel, shall provide an outline of all ICIDS-IV training, and shall be presented at the contractor's ESTL (See paragraph 3.3 b of this SOW). The Contractor shall comply with the training requirements as stated below and award a training certificate to each attendee upon completion.

#### 3.6.1 General.

The Contractor shall develop a training package and conduct training for the ICIDS-IV in accordance with (IAW) the Statement of Work (SOW) and Contract Data Requirements List (CDRLs) A031, A032, and A033.

#### 3.6.2 Requirements. The Contractor shall provide ICIDS-IV training as described below:

##### a. Government Executive Overview:

The Contractor shall provide a single, 8-hour day Executive Overview of a PVT-1 representative system and outlining all ICIDS-IV training for up to twenty (20) Program Office

personnel prior to the start of PVT-1. Additional Executive Overviews and demonstrations shall be provided as required upon request of the Government.

b. Installation Training:

Installation Training shall consist of a maximum of 80 hours of training. The course breakdown shall be:

- Operator Training for twelve (12) students for a maximum of 16 hours.
- System Administrator Training for four (4) students for a maximum of 24 hours.
- Maintenance Training for two (2) students for a maximum of 40 hours.

These blocks of instruction for Operators, System Administrators, and Maintenance Personnel that shall be provided at each ICIDS-IV installation. Operators must complete only the Operator portion of the training, while the System Administrators must complete the Operator portion of the course before taking the System Administrator training. The maintenance personnel will receive Operator and System Administrator training prior to learning the maintenance tasks. The courses shall be structured for classroom and hands-on training, utilizing installed ICIDS-IV equipment and shall include all operations and functions of the ICIDS-IV system to include Operator Preventive Maintenance Checks and Services (PMCS) for the ICIDS-IV equipment. All training shall be tailored for each installed site.

c. Training, Testing Materials, and Equipment.

The Contractor shall develop and provide for each student all training, testing materials, and equipment IAW applicable CDRLs. These materials may include, but are not limited to: manufacturer's (commercial) manuals, ICIDS-IV technical manuals (including TM 5-6350-300-13-&P) as well as outlines, instructor guides, trainee guides, wall charts, schematics, videos, or films. All training and testing material developed IAW CDRLs shall be approved by the Government prior to contractor conducting the class. Upon approval, the Contractor shall provide each student at the installation site a copy of all training material developed and approved for the installation site.

d. Conduct of Courses.

- (1) Course Objective. The Contractor shall conduct a training course on all operational and maintenance related actions for the ICIDS-IV system. The objective of the Operator, System Administrator, and Maintainer training courses are to ensure that each Operator can accomplish all of the operational actions and that each System Administrator can accomplish all of the operational actions and PMCS functions specified in the Operator and System Administrator sections of the technical manual. The maintenance training shall be a stand-alone training session that provides for the installation maintenance personnel to identify, remove, and replace failed major components of the system.
- (2) Scope of Training. The training shall be a combination of classroom and hands-on (practical exercise) using the installed ICIDS-IV system. At the completion of each course, students will be given a test to assess knowledge gained during the program

of instruction. System Operators will be tested on their ability to successfully accomplish all of the operational actions, System Administrators will be evaluated on their ability to accomplish all of the operational actions and PMCS functions and finally, System Maintainers will be tested on their ability to identify, remove, replace and perform prescribed maintenance of major components specified in the system technical manual.

- (3) Length of Course. The Operator, System Administrator, and Maintenance courses shall not exceed 80 hours, and shall cover the ICIDS-IV delivered under this contract.
- (4) Dates of Site Classes. Dates for presentation of each class will be determined by the Government, based on the site installation schedule, and the availability of installed ICIDS-IV equipment to be used for the training. Training shall be conducted at each ICIDS-IV installation.
- (5) Safety. The Contractor shall establish detailed procedures, also included in the training material, to ensure the safety of all individuals concerned with the training program. Safety procedures shall include relevant notices, warnings, cautions and notes extracted from the TMs (both commercial and military) and from any other source of information pertinent to the safety of personnel while in the training course.
- (6) Facilities. Classroom and practical exercise/laboratory facilities will be furnished by the SPOC who will coordinate to ensure availability and adequate facility for the site training. All training will be given in an area free of interference from other classes or activities disruptive to a satisfactory training environment.
- (7) Training Material. All training materials shall be furnished by the Contractor.
- (8) Instructor Qualifications. The instructor(s), selected by the Contractor will be experienced and have a complete knowledge of the end item and all its components.

### 3.6.3 Special Instructions:

- a. The Government reserves the right to record any or all training, photographically or electronically, for instructional use or review. Such material becomes the sole property of the Government and no additional copyright or individual release shall be required.
- b. All visual aids/materials and test packages developed or specifically produced/manufactured for use in the conduct of training courses shall become the property of the Government upon completion of the training courses.

### 3.7 Warranty

A one-year warranty, including all parts and labor for all supplies delivered under this contract, is required (see Warranty provision in Section H). The Contractor shall provide warranty service 24 hours per day, 7 days per week. Maintenance Service reports detailing maintenance problem(s) and corrective action(s) taken shall be submitted IAW CDRL A010.

#### 3.7.1 Warranty Repair

The Contractor shall plan for repair actions on all items that fail during the one-year warranty. Specific tasks to be performed shall be addressed in the Contractor developed Maintenance Support Plan for each site IAW CDRL A009. This shall include repair, replacement, modification, test, and subsequent documentation of failed Contractor installed ICIDS-IV equipment. The Contractor shall provide a time line identifying when scheduled warranty maintenance will be performed at each site.

### 3.7.2 Warranty Repair Time

The contractor maintenance shall minimize interruptions of system operation not to exceed 24 hours. Repair time for unscheduled warranty repair of an operational mission failure shall not exceed the time specified (either 8 or 24 hours) in the delivery order. An operational mission failure is defined as any malfunction of the system that results in the loss of the ability of the equipment to perform its intended function, which would require the deployment of a guard force to 1/16th or greater of the protected zones. For other failures, the response and repair time shall not exceed 24 hours. Warranty Repair Time for service calls is measured from the time the Contractor is notified; to the time the Contractor's work force has completed the repair.

### 3.8 Security.

In concert with FAR clause 52.204-2 (8/96), Security Requirements, the Contractor shall comply with the security regulations and procedures set forth in the National Industrial Security Program Operating Manual (NISPOM) and DD Form 254, Contract Security Classification Guide. Before performing and upon completion of any on-site work, the Contractor shall report to the Installation Security Officer or the designated representative. Contractor personnel shall possess and transmit appropriate clearances prior to arrival at the site. Pursuant to AR 190-11 and AR 190-13, Contractor personnel whose duties involve the design, operation, test, installation, or maintenance of unclassified IDS require completion of a favorable National Agency Check (NAC) or NAC with written inquiries prior to appointment to such non-critical, sensitive positions.

### 3.9 Configuration Control

#### 3.9.1 Requirements

The Contractor shall be responsible for the configuration control of the ICIDS-IV hardware, COTS software, and interfaces as determined by the Performance Specification and verified during PVT. The Contractor shall utilize its internal plan to control the configurations of the ICIDS-IV components, control procedures for processing and recording changes to the configuration, and designate a configuration manager within its organization responsible for such changes. The initial configuration shall consist of the components as identified in the Schedule of Supplies or Services and Prices listed in Section B of the contract.

All recommended changes to the ICIDS-IV system require prior approval, in writing IAW CDRL's A007 and A011, by the Contracting Officer. Any request for change shall be accomplished with complete supporting documentation, including the need or reason for change, and the price/schedule impact. If a reoccurring need is identified for a specific hardware and software item, the Contractor shall recommend that the Government incorporate the item into the contract. The

Government reserves the right to require the Contractor to provide additional supporting technical analysis, and also reserves the right to specify additional testing as may be necessary to prove the acceptability of any proposed change prior to approval. The price of generated configuration changes, other than hardware upgrades or those requested by the Government shall be borne by the Contractor.

3.9.2. Requirements for Unique Item Identification (UID). Based on past experience, the Government does not anticipate any components to exceed \$5,000. However, if any component exceeds \$5,000, the contractor shall mark all contract deliverables In Accordance With (IAW) the following requirements.

3.9.2.1 UID Marking. The contractor shall provide UID, or DoD recognized equivalent, for all items delivered with an acquisition cost of \$5000 or more. For long term contracts, any items that have range quantity prices that will exceed the \$5000 unit price any time during the life of the contract shall have UID markings from the beginning of the contract. In addition, the contractor shall apply UID markings to all other items the government has identified in this contract as requiring UID markings. UID markings shall be IAW MIL-STD-130M.

3.9.2.2. Commercial Markings. All other items shall have acceptable commercial markings that meet the guidelines in Department of Defense (DoD) Guide to Uniquely Identifying Items <http://www.acq.osd.mil/dpap/UID/>.

3.9.2.3. Permanency and Legibility. The UID marking and identification plates, tags, etching, or labels when used on equipment, parts, assemblies, subassemblies, units, sets, groups, or kits shall be as permanent as the normal life expectancy of the item and be capable of withstanding the environment, test, cleaning, repair, and rebuild procedures specified for the item. Legibility shall be as required and verified for ready readability per MIL-STD-130M.

3.9.2.4. Deleterious Effect. Marking of items shall be accomplished in a manner that will not adversely affect the life and utility of the item. Marking materials creating hazardous conditions shall not be used. Placement and choice of the marking shall not create hazardous conditions.

### 3.9.3 Hardware and Software Upgrades

The Contractor shall offer to the Government all hardware and software upgrades that are commercially available, which enable previously fielded products purchased under this contract to exhibit added performance, increased functionality and price option analysis. The Contractor shall notify the Contracting Officer within 60 days of product availability, and indicate if the old configuration will no longer be supportable. Commercial Drawings and Associated Lists for such hardware upgrades shall be furnished IAW CDRL A011. Documentation for such software upgrades shall be furnished IAW CDRL A007.

## 4.0 QUALITY ASSURANCE REQUIREMENTS

### 4.1 Responsibility for Inspection



Unless otherwise specified in the contract, the Contractor is responsible for the performance of inspection requirements. The Contractor shall provide and maintain an inspection system that shall assure that all supplies and services submitted to the Government for acceptance conform to contract requirements, whether manufactured or procured by the Contractor, or procured from subcontractors or vendors. The Contractor shall perform or have performed the inspections and tests required to substantiate product conformance to drawings, specifications, and contract requirements, and shall also perform all inspections and tests otherwise required by the contract. The Contractor's inspection system shall be documented and shall be available for review by the Government throughout the life of the contract.

## 4.2 Test and Evaluation

### 4.2.1 General

The Contractor shall perform tests as described in the following paragraphs. The Contractor shall provide personnel, equipment, instrumentation, and supplies necessary to perform all testing, unless otherwise indicated.

### 4.2.2 Performance Verification Test (PVT)

Government acceptance of the first system installed shall not take place until Government approval of all test reports submitted in support of PVT, which will consist of Performance Verification Testing (PVT) and an Endurance Test.

#### 4.2.2.1 PVT-1

a. General. The Contractor shall conduct PVT in two (2) parts as described below. PVT-1 shall be conducted IAW the Contractor-prepared and Government-approved Test Plan (CDRL A012) and Test Procedure (CDRL A013) to verify all functional requirements of the ICIDS-IV, as set forth in the contract. PVT-1 shall be conducted at the Contractor provided ESTL (See paragraph 3.3 b of this SOW) facility within ninety (90) days of contract award. The Test Report shall be submitted IAW CDRL A014.

b. PVT-1. PVT-1 shall be conducted on a fully integrated system consisting of at least one component of each hardware/software item except exterior sensors. PVT-1 shall be performed on the equipment provided by the contractor for the PVT-1 test at the ESTL provided in accordance with paragraph 3.3 of this SOW. The Contractor shall conduct tests to verify that system performance complies with contract requirements, IAW approved test plans and procedures. Model numbers of equipment tested shall be identical to those to be delivered. The Contractor shall prepare As-Built Drawings to accurately reflect the design of the ICIDS-IV System tested for PVT-1 at the ESTL IAW CDRL A006. The As-Built Drawings shall be maintained for the life of the contract and shall be updated whenever changes are made to the ICIDS-IV System at the ESTL. A Test Readiness Review (TRR) shall be conducted IAW paragraph 4.2.3, at the ESTL prior to the conduct of PVT-1 at the ESTL.

#### 4.2.2.2 PVT-2 and Endurance Test

a. General. The PVT-2 Test shall not be started until PVT-1 has been conducted and approved by the Government. Prior to conducting testing, the Contractor shall submit a Safety Assessment Report IAW CDRL A015. PVT-2 and an Endurance Test shall be conducted on the first site installed. Those components to be installed shall be new units. At least one component of each installed hardware/software item shall be tested or results from previous testing may be provided to the Government for evaluation and approval.

The Contractor shall prepare, for Government approval, PVT-2 and Endurance Test Plans, IAW CDRLs A016 and A019 respectively, and Test Procedures, IAW CDRLs A017 and A020, respectively. Upon completion of testing, the Contractor shall submit the PVT-2 and Endurance Test Reports, IAW CDRLs A018 and A021, respectively. The Contractor shall not be held responsible for failures in system performance resulting from the following:

- (1) An outage of the main power supply in excess of the capability of any backup power source, provided that the automatic initiation of all backup sources and automatic shutdown and restart of the ICIDS-IV were accomplished.
- (2) Failure of a Government furnished communications link, provided that the failure was not due to contractor-furnished equipment, installation, or software.
- (3) Failure of existing Government owned equipment, provided that the failure was not due to contractor-furnished equipment, installation, or software.
- (4) Failures due to environmental extremes exceeding the ICIDS-IV specification characteristics.

b. PVT-2. The Contractor shall verify that the completed ICIDS-IV complies with the contract requirements. PVT-2 shall verify successful system integration at the site, and shall verify proper installation of the system. Using approved test procedures, all physical and functional requirements of the ICIDS-IV shall be verified and documented. The Contractor shall make final adjustments and test all equipment, verify Data Transmission Media (DTM) operation, place the integrated system in service, and test the integrated system.

The Government may terminate testing at any time when the system fails to perform as specified in the contract. Upon termination of testing, the contractor shall commence an assessment period. During the assessment period, the contractor shall identify all failures, determine the causes of all failures, correct all failures, and deliver to the Government a written report IAW CDRL A022. The report shall explain in detail the nature of each failure, corrective action taken, results of tests performed, and shall recommend the point at which testing should be resumed.

After delivering the written report, the Contractor shall convene a test review meeting at the job site to present the results and recommendations to the Government. Based on the Contractor's report and the test review meeting, the Government will approve a restart date, or may require that testing be repeated. The price of any restarts or repeats shall be borne by the Contractor. Upon successful

completion of the PVT-2 part of PVT, the contractor shall deliver a test report, IAW CDRL A018, to the Government prior to commencing the Endurance Test.

c. Endurance Test. The Endurance Test shall be conducted as specified below, and shall not be started until the Government approves the PVT-2 part, training has been completed, and all outstanding deficiencies have been corrected. The Contractor shall provide personnel to support the test 24 hours per day, including weekends and holidays, during the 30-day endurance test. The Government shall operate the system during this test. The test shall demonstrate that the system operates as specified.

Test plans, procedures, and reports shall be IAW the data items identified in Paragraph 4.2.2.2a, above. The Contractor shall make no repairs during this part of testing unless authorized by Government Test Director. The Government may terminate testing at any time the system fails to perform as specified in the contract. Upon termination of testing by the Government, the Contractor shall commence an assessment period as described in Paragraph 4.2.2.2b, above. The price of all retests shall be borne by the Contractor.

#### 4.2.2.3 Supportability

Contractor shall implement reliability and maintainability programs to assure reliability requirements of the ICIDS-IV performance specifications are met.

The Contractor shall identify all failures, determine the causes of all failures, correct all failures, and deliver to the Government a written report IAW CDRL A023.

#### 4.2.3 Test Readiness Review

a. A Test Readiness Review (TRR) shall be conducted at the gaining installation by the Government prior to any test.

b. The Contractor is responsible for attending meeting and providing the required documentation and assistance in the resolution of any issues or concerns.

c. Discrepancies in the documentation, design, or training will be corrected prior to the conduct of the PVT and the Endurance Test by the Contract Site Manager, and may involve re-test of zones and re-training of personnel at contractor's expense.

4.2.4 During the course of PVT-2 and subsequent System Performance Verification (SPV) tests, all installed equipment shall be activated and report to the head end command & control console. The SPV test shall be conducted in such a manner that 100% of installed devices shall be activated.

#### 4.2.5 System Acceptance Test (System Performance Verification [SPV] and Endurance Test)

The Contractor shall conduct a System Performance Verification (SPV) test, for follow-on site installations. After completion of the SPV, the Government shall conduct a thirty (30) day Endurance Test, as described in Paragraph 4.2.2.2 c. above. Test Plans shall be IAW CDRLs A024 and A027,

respectively. Test Procedures shall be IAW CDRLS A025 and A028, respectively. Test Reports shall be IAW CDRLs A026 and A029, respectively. When agreed to between the Government and the Contractor, the scope of the testing required may be tailored to address site specific requirements.

4.2.6 The contractor shall provide certified personnel for the installation, maintenance, training, and administration of all ICIDS-IV Original Equipment Manufacturer (OEM) equipment.

4.2.7 The contractor shall ensure that the ICIDS-IV is in compliance with DoD Directive (DoDD) 8500.1, DoD Instruction (DoDI) 8500.2, DoD Instruction (DoDI) 8580.1, Army Regulation (AR) 25-2, Interim DoD Information Assurance (IA) Accreditation (C&A), 06 July 2006, Subj: DoD Information Assurance Certification and Certification and Accreditation Process Guidance- Process (DIACAP); and DA Memorandum, 30 November 2006, Subj: Department of the Army strategy for the implementation of the Interim DoD Information Assurance Certification and Accreditation Process (DIACAP). The system shall be certified/accredited prior to First Unit Equipped (FUE).

END OF SECTION C